

Utah Weekly Pertussis Update

2019 data, through MMWR week ending October 5 (MMWR week 40)

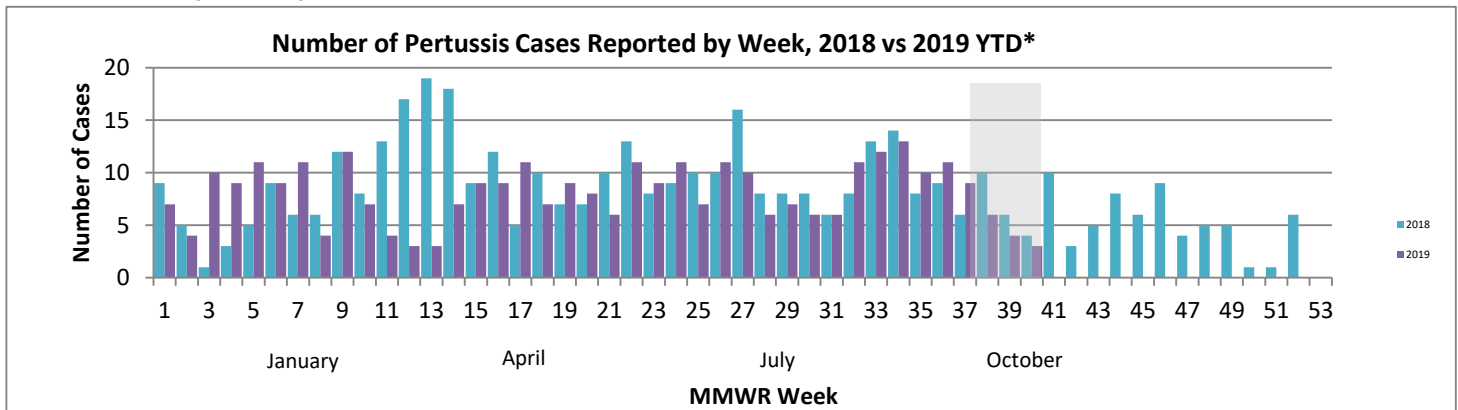
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2019 year-to-date (YTD)	323	Utah Incidence rate, 2019 year-to-date (YTD) per 100,000 person-years	14.0
Total number of cases reported 2018	428	Utah Incidence rate, 2018 per 100,000 person-years	14.6
Number of cases reported in past week	3	National Incidence rate*, 2017 per 100,000 person-years.	5.8
Total number of cases reported, through same time period 2018	365	2019 Hospitalizations	8
Age groups with the highest rates	<1 1-4	2019 Cases in infants <1 year	12

*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2019 Year-to-Date Incidence Rates, By Age

Age (years)	2019 Cases	2017 population	Rate*
<1	12	51,401	31.3
1-4	52	203,799	34.2
5-14	81	521,331	20.8
15-24	58	495,829	15.7
25-34	27	457,423	7.9
35-44	39	422,547	12.4
45-54	24	317,532	10.1
55-64	13	296,399	5.9
65+	13	335,572	5.2
Unknown	4	-	-
Total	323	3,101,833	14.0

* Rate is calculated per 100,000 person years.

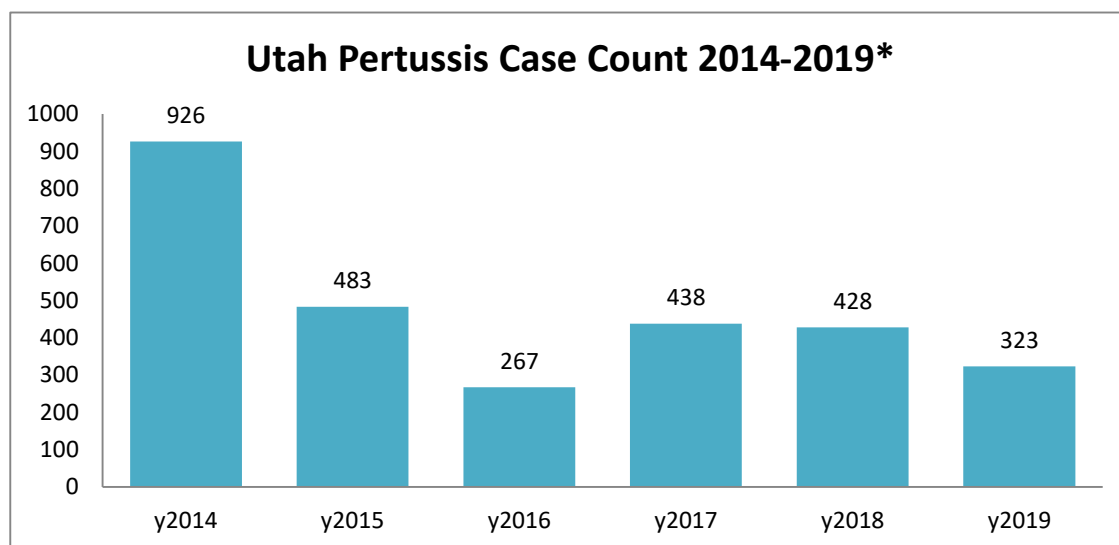
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

School Age Incidence Rates, 2019 Year-to-Date

Grade	Age (years)	2019 Cases	2017 Population	Rate*
Preschool	3-4	22	102,181	28.9
Kindergarten	5	5	49,869	13.5
1	6	11	51,269	28.8
2	7	6	52,299	15.4
3	8	7	52,131	18.0
4	9	8	53,612	20.0
5	10	13	53,712	32.5
6	11	7	52,765	17.8
7	12	12	52,359	30.8
8	13	9	51,910	23.3
9	14	3	51,405	7.8
10	15	9	49,974	24.2
11	16	9	49,983	24.2
12	17	9	50,211	24.1

* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. High incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2014-2019* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward. 2019 data, through MMWR week ending January 5 (MMWR week 1)

Incidence of Pertussis by Local Health Department, 2019 YTD

Local Health Department	2019 Cases	Rate*
Bear River	15	11.1
Central Utah	1	1.7
Davis County	15	5.8
Salt Lake County	171	20.2
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	34	19.4
Summit County	3	9.8
Tooele County	3	6.0
TriCounty	1	2.4
Utah County	39	8.6
Wasatch County	5	20.9
Weber-Morgan	36	18.3

* 2019 data includes pertussis cases reported year to date. 2014-2018 data reflects cases reported during the entire calendar year for each year.

